

Work Order ID 120684

Tuesday, June 10, 2014 1:31:54 PM

120684

Page 1

Item ID: D139-816-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Lightweight Interior Ceiling Panel

Stop ***NS2***Start Date: 7/02/14 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 7/28/14 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals:

Process Plan: Date: 14-6-10 Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____ SPC (Y/N): _____

Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

DSI9686

A

DSI9691

A

IIN-D139-816

D

*JS**MLJ 14-07-09*

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

DAS
06
9-89

JUL 23 2014

Doc.Control -USB or Paperwork

Photocopy blue file & type labels as per PPP D139-816-011 CHG005

110

Pick Kit

0.00

110

Packaging

Memo

0.00

DAS
31
9-89DAS
33
9-89

Packaging

14-07-09

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Item ID: D139-816-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Lightweight Interior Ceiling Panel

Stop ***NS2***Start Date: 7/02/14 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 7/28/14 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00			DAS 31 9-89	1x		14-08-08	
120									
QC	Memo	0.00							
Quality Control									
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Package as per PPP D139-816-011 Identify and Stock								
	Location: <u>SHIP</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

1 2 14-08-08
M.L.D.

M.L.S. 14-08-08

14-08-08

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120684

D139-816-011

Required Date: 7/28/14

Required Qty: 1.00

DSI9686 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4634-041		Manufactured	No			110	Each	0.0000	1	1			
D4634-041	DAS 31 9-89								**				DAS 28 9-89
Fwd, Center Ceiling Panel Assembly											120164		
D4634-043		Manufactured	No			110	Each	1.0000	1	1			
D4634-043	DAS 31 9-89								**				DAS 28 9-89
Middle, Center Ceiling Panel Assembly											122512		
	DAS 31 9-89			<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				FG		1							
				114602		1							
D4634-045		Manufactured	No			110	Each	0.0000	1	1			
D4634-045	DAS 31 9-89								**				DAS 28 9-89
Aft, Center Ceiling Panel Assembly											122654		
D4635-041		Manufactured	No			110	Each	0.0000	1	1			
D4635-041	DAS 31 9-89								**				DAS 28 9-89
Fwd Ceiling Panel Assembly, LH											120446		
D4635-042		Manufactured	No			110	Each	0.0000	1	1			
D4635-042	DAS 31 9-89								**				DAS 28 9-89
Fwd Ceiling Panel Assembly, RH											118973		
D4635-043		Manufactured	No			110	Each	0.0000	1	1			
D4635-043	DAS 31 9-89								**				DAS 28 9-89
Aft Ceiling Panel Assembly, LH											118982		
D4635-044		Manufactured	No			110	Each	0.0000	1	1			
D4635-044	DAS 31 9-89								**				DAS 28 9-89
Aft Ceiling Panel Assembly, RH											119265		

Picklist Print

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Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D4636-043

Manufactured No

110 Each 38.0000 16 16

DAS
32
9-89
DAS
31
9-89

D4636-043

Receptacle Bracket Assembly

DAS
06
9-89

Location	Loc Qty	Loc Code
ST117	38	
117651	38	

**

119836

D4636-11

Manufactured No

110 Each 59.0000 10 10

DAS
32
9-89
DAS
31
9-89

D4636-11

Bracket

DAS
06
9-89

Location	Loc Qty	Loc Code
ST116	59	
114728	2	
117652	48	
92961	9	

**

119837

D4636-5

Manufactured No

110 Each 51.0000 16 16

DAS
32
9-89
DAS
31
9-89

D4636-5

Bracket

DAS
06
9-89

Location	Loc Qty	Loc Code
MF3	8	
111978	8	
ST115	43	
114660	11	
116195	32	

**

13121038

D4636-7

Manufactured No

110 Each 24.0000 4 4

DAS
32
9-89
DAS
31
9-89

D4636-7

Retainer Plate

DAS
06
9-89

Location	Loc Qty	Loc Code
ST112	24	
119838	24	

**

116582

141123

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120684

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D4636-9 Manufactured No

110

Each

19.0000

1 1

DAS

32

9-89

DAS

31

9-89

D4636-9

Template

DAS
06
9-89

Location

Loc Qty

Loc Code

ST115

1

111233

1

ST116

18

117653

18

D4648-1

Manufactured No

110

Each

1.0000

1 1

DAS

32

9-89

DAS

31

9-89

D4648-1

Template

DAS
06
9-89

Location

Loc Qty

Loc Code

ST133

1

113950

1

D4653-041

Manufactured No

110

Each

6.0000

6 6

DAS

32

9-89

DAS

31

9-89

D4653-041

Vent Manifold Assembly

DAS
06
9-89

Location

Loc Qty

Loc Code

ST117

6

114705

6

D4653-11

Manufactured No

110

Each

98.0000

6 6

DAS

32

9-89

DAS

31

9-89

D4653-11

Clamp

DAS
06
9-89

Location

Loc Qty

Loc Code

st113

30

117661

30

ST118

68

111998

6

119841

62

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Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D4664-7

Manufactured No

110

Each

72.0000

3 3

DAS

32

9-89

D4664-7

Spacer

DAS

06

9-89

Location

Loc Qty

Loc Code

ST118

72

107035

1

111835

31

114887

40

111835

114887

D4712-043

Manufactured No

110

Each

41.0000

2

2

32

9-89

D4712-043

Bracket Assembly

DAS

06

9-89

Location

Loc Qty

Loc Code

st113

17

114715

17

ST118

24

119847

24

119847

D4716-1

Manufactured No

110

Each

16.0000

2

2

DAS

32

9-89

D4716-1

Duct Hose

DAS

06

9-89

Location

Loc Qty

Loc Code

ST139

2

93111

2

ST139i

2

113888

2

ST146

12

114843

12

14/12/22 @

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D4716-3 Manufactured No

D4716-3

Duct Hose

DAS
06
9-89

Location

Loc Qty

Loc Code

st139g

4

113889

4

ST146

24

114844

24

110

Each

28.0000

4

4

**

DAS
32
9-89

DAS
31
9-89

D4716-5 Manufactured No

D4716-5

Duct Hose

DAS
06
9-89

Location

Loc Qty

Loc Code

ST139

6

111289

6

st139h

12

113890

12

ST146

30

114845

30

110

Each

48.0000

6

6

**

DAS
32
9-89

DAS
31
9-89

D4728-057 Manufactured No

D4728-057

Ps7J1 Jumper

DAS
06
9-89

Location

Loc Qty

Loc Code

MF

5

116304

5

MF5

5

111210

1

116306

4

110

Each

10.0000

1

1

**

DAS
32
9-89

DAS
31
9-89

11/7/22 ①

116304

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D4728-063

Manufactured No

110 Each

5.0000

1

1

D4728-063

Cabin Temp Sensor Jumper Assembly

**

116315

DAS
32
9-89

DAS
31
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

MF5

5

111217

1

116313

4

D4730-020-035

Manufactured No

110 Each

139.0000

24

24

D4730-020-035

Velcro Strip 2.0W/ X 3.5L

**

121681

DAS
32
9-89

14-07-0931
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST121

90

110415

18

114738

1

119193

71

ST122

49

111390

4

120063

45

D5032-1

Manufactured No

110 Each

68.0000

16

16

D5032-1

Doubler

**

B121025

DAS
32
9-89

DAS
31
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST129

61

111811

1

119834

60

ST130

7

111976

7

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

D5032-3

Manufactured No

110

Each

85.0000

16 16

D5032-3

Doubler

**

120970

DAS
32
9-89

DAS
31
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST129

73

119835

73

ST131

12

116584

12

2351-20-21-C3C

Purchased

No

110

Each

510.0000

16 16

2351-20-21-C3C

STUD

**

DAS
33
9-89

DAS
31
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST396

510

M127922

72

M128068

438

50-009-2

Purchased

No

100

Each

550.0000

16 16

50-009-2

Grommet

**

DAS
33
9-89

14-07-09

DAS
06
9-89

Location

Loc Qty

Loc Code

MF5

24

m128022

24

ST378

526

122594

1

m128022

9

m128047

516

128047

DAS
31
9-89

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Work Order ID: 120684

120684

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

AN970-3 Purchased No 110 Each 362.0000 10 10

AN970-3

Washers

DAS
06
9-89

Location

Loc Qty

Loc Code

ST508

362

m127432

6

m128057

356

**

DAS
33
9-89

DAS
31
9-89

BT1.5I-M

Purchased No

110 Each 1,537.000 24 24

BT1 5I-M

Tie Wrap

DAS
06
9-89

Location

Loc Qty

Loc Code

ST283

537

123742

537

st507

1000

m128238

1000

**

DAS
33
9-89

DAS
31
9-89

BT3LH-L

Purchased No

110 Each 496.0000 12 12

***BT3I H-I ***

Tie Wrap

DAS
06
9-89

Location

Loc Qty

Loc Code

st507

496

m128238

496

**

DAS
33
9-89

14-07-09

DAS
31
9-89

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

5,953.000

35

35

MS21042L3

Nut

**

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST314

109

108816

9

M127410

13

M127831

39

M128401

48

ST506

955

123900

955

ST509

4889

M127831

2

M128754

4887

128754

MS24694-S51

Purchased

No

110

Each

152.0000

36

36

MS24694-S51

Screw

**

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST303

152

m127432

1

m128635

151

MS27039-1-15

Purchased

No

110

Each

823.0000

21

21

MS27039-1-15

Screw

**

DAS

33

9-89

14-07-09

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST306

223

124326

223

ST506

600

m127916

600

124326

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0316J

Purchased

No

110

Each

1,028.000

5

5

NAS1149D0316.J

Washer

**

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST293

628

M127993

628

ST510a

400

M127956

400

127993

NAS1149D0332J

Purchased

No

110

Each

3,308.000

34

34

NAS1149D0332.J

Washer

**

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST294

369

m128606

369

ST510a

2939

m128612

2939

128612

NAS1149D0663J

Purchased

No

110

Each

1,809.000

6

6

NAS1149D0663.J

Washer

**

DAS

33

9-89

14-07-09

DAS
06
9-89

Location

Loc Qty

Loc Code

ST294

7

123265

4

M126284

3

ST510a

1802

M126334

699

M127813

35

M127916

68

M128818

1000

128818

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Work Order ID: 120684

Parent Item: D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panel

120684

D139-816-011

Start Date: 7/02/14

Required Date: 7/28/14

Start Qty: 1.00

Required Qty: 1.00

CB200 Purchased No

110 Each 23.0000 3 3

CB200

Acrylic Adhesive, 3.5G

**

129794

DAS

31

9-89

DAS
06
9-89

FRIGIDAIRE

Location

Loc Qty

Loc Code

ST264

23

m129423

23

CS125-1032-8AACR

Purchased

No

110 Each 26.0000 2 2

CS125-1032-8AACR

Stud

**

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST283

26

M127974

26

D5078-1

Manufactured

No

110 Each 23.0000 1 1

D5078-1

Bracket

**

14-07-09

DAS

33

9-89

DAS

31

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST139B

23

115477

23

115477

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DART SERVICE INSTRUCTION

**TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT**

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide an alternate method of installing the D139-816-011 Interior Ceiling Panel Kit for customers with newer 300 series aircraft models with split center ceiling panels.

2.0 PROCEDURE

This procedure modifies step 3.1.7 of IIN-D139-816 Rev. D.

- 2.1 Position the D4634-041/-043/-045 center panels onto the p/n E4417F01 cabin isolation mounts using $\varnothing 0.25"$ (6 mm) holes in the panels. Identify those mounts that do not align with holes in the panels. Ensure that a gap between the D4634-041/-043/-045 panels of approximately 0.050" (1.3 mm) is maintained.
- 2.2 Remove extra and non-aligning cabin isolation mounts from the ceiling. Temporarily install the removed mounts into non-align holes in the panels and paint mark the back of the E4417F01 mounts. Position the D4634-041/-043/-045 center panels onto p/n E4417F01 cabin isolation mounts. Ensure the new mount locations get marked in the cabin roof. Remove panels keeping the mounts on the panels.
- 2.3 Remove ceiling insulation from aircraft ceiling at the new marked mount locations.
- 2.4 Apply a small amount of CB 200 Click Bond adhesive to the E4417F01 cabin isolation mounts that are being relocated.
- 2.5 Reposition the ceiling panels on the ceiling pressing the E4417F01 cabin isolation mounts firmly on the ceiling and holding in position until the adhesive cures enough to remove the screws from the mount.
- 2.6 Install the necessary rivets to re-fasten the E4417F01 cabin isolation mounts to the ceiling.
- 2.7 Continue the ceiling panel installation as indicated in the IIN-D139-816.

3.0 GENERAL NOTE

- 3.1 Due to the thermoforming process variations in material thickness may occur. It is acceptable to install longer or shorter Dzus fasteners as required to accomodate this material variation.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

For D139-816-011 & CHG 005 and later, the following parts have been added to the kits.




QTY. -011	PART NUMBER	DESCRIPTION
X	D139-816-011	INTERIOR CEILING PANEL KIT
3	CB 200	3.5g ACRYLIC ADHESIVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9686	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE INSTALLATION	NTS
DATE	14.03.24	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DART SERVICE INSTRUCTION

**TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT**

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

2.0 PROCEDURE

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
- 2.3 Install overhead cannon plug in the D5078-1 Bracket using existing NAS1801/1802 screws and existing AS85049/95-20A-A Perimeter Mounting Flange as shown in Figure 2.
- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.

QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	BRACKET INSTALLATION	NTS
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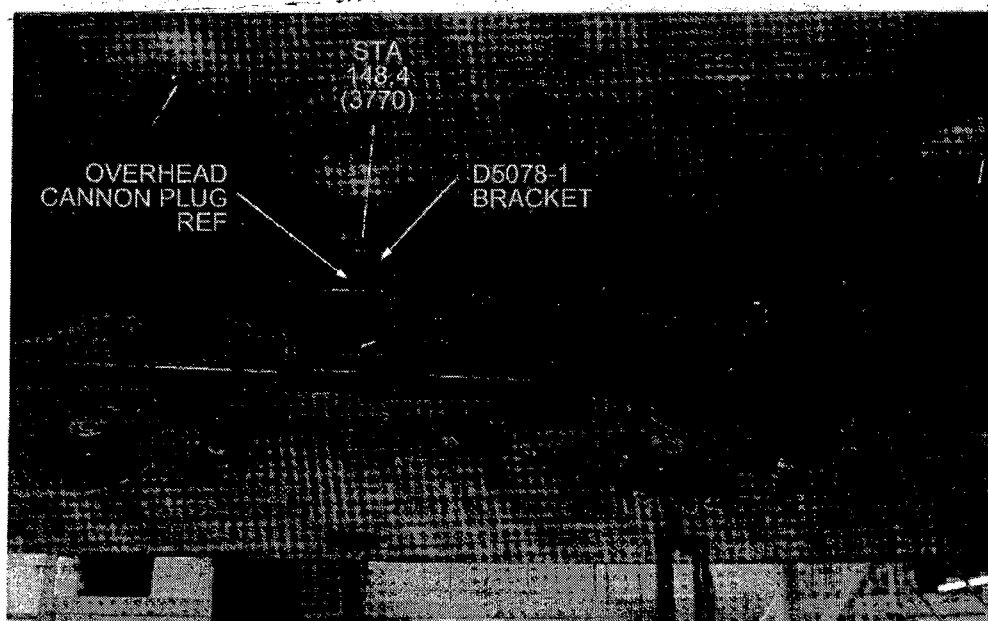


Figure 1. - LH Side Overhead Panel

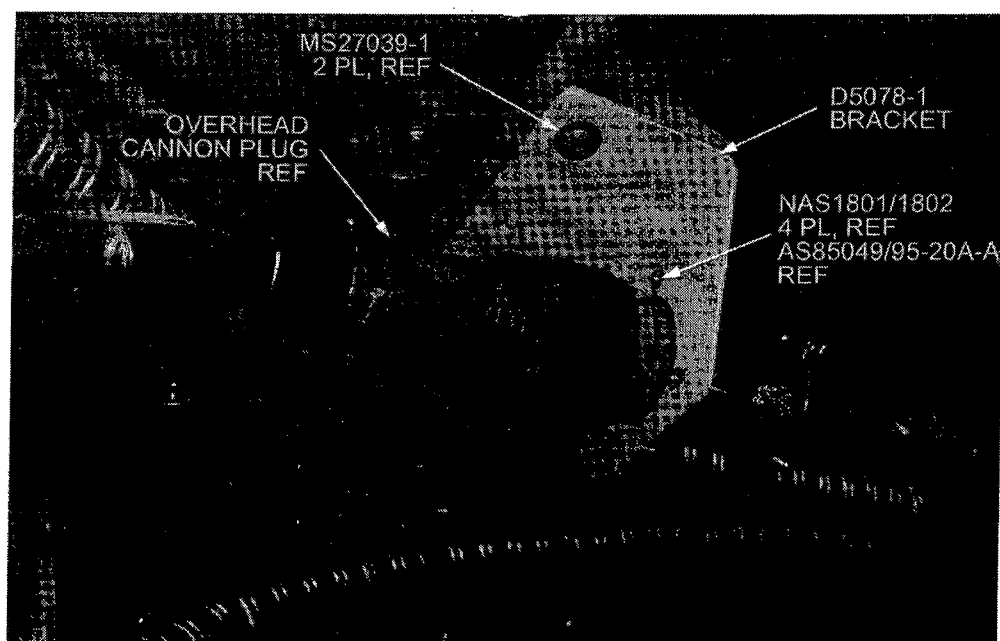


Figure 2. - D5078-1 Bracket Installation

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MFG. APPR.	N/A	DSI 9691	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
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5.0 PARTS LIST

Qty -011	Part Number	Description
X	D139-816-011	INTERIOR CEILING PANEL KIT
1	D4634-041	FWD, CENTER CEILING PANEL ASSEMBLY
1	D4634-141	* FWD, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-043	MIDDLE, CENTER CEILING PANEL ASSEMBLY
1	D4634-143	* MIDDLE, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-045	AFT, CENTER CEILING PANEL ASSEMBLY
1	D4634-145	* AFT, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-041	LH, FWD CEILING PANEL ASSEMBLY
1	D4635-141	* LH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-042	RH, FWD CEILING PANEL ASSEMBLY
1	D4635-142	* RH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-043	LH, AFT CEILING PANEL ASSEMBLY
1	D4635-143	* LH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-044	RH, AFT CEILING PANEL ASSEMBLY
1	D4635-144	* RH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
16	D4636-043	RECEPTACLE BRACKET ASSEMBLY
10	D4636-11	BRACKET
16	D4636-5	BRACKET
4	D4636-7	RETAINER PLATE
1	D4636-9	TEMPLATE
1	D4648-1	TEMPLATE
6	D4653-041	VENT MANIFOLD ASSEMBLY
6	D4653-11	CLAMP
3	D4664-7	SPACER
2	D4712-043	BRACKET ASSEMBLY
2	D4716-1	DUCT HOSE
4	D4716-3	DUCT HOSE
6	D4716-5	DUCT HOSE
1	D4728-057	HARNESS ASSEMBLY
1	D4728-063	HARNESS ASSEMBLY
24	D4730-020-035	VELCRO STRIP
16	D5032-1	DOUBLER
16	D5032-3	DOUBLER
16	2351-20-21-C3C	DZUS SCREW
16	50-009-2	GROMMET
10	AN970-3	WASHER
24	BT1.5I-M	TIE WRAP
12	BT3LH-L	TIE WRAP
1	CB 200	3.5g ACRYLIC ADHESIVE
2	CS125-1032-8-AA-CR	STUD (or CS125-1032-8-AA-CRM)
35	MS21042L3	NUT
36	MS24694-S51	SCREW
21	MS27039-1-15	SCREW
5	NAS1149D0316J	WASHER (or AN960JD10L)
34	NAS1149D0332J	WASHER (or AN960JD10)
6	NAS1149D0663J	WASHER (or AN960JD616)

NOTES: (*) DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE
D4634-141/-143/-145 ARE REPLACEMENT PANELS
D4635-141/-142/-143/-144 ARE REPLACEMENT PANELS

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Revision: **D**
Date: 13.12.16

DART SERVICE INSTRUCTION

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REFERENCE ONLY

REF. TCCA STC: SH12-54
REF. FAA STC: SR03251NY
REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

2.0 PROCEDURE

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
- 2.3 Install overhead cannon plug in the D5078-1 Bracket using existing NAS1801/1802 screws and existing AS85049/95-20A-A Perimeter Mounting Flange as shown in Figure 2.
- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.



QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
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REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54
REF. FAA STC: SR03251NY
REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide an alternate method of installing the D139-816-011 Interior Ceiling Panel Kit for customers with newer 300 series aircraft models with split center ceiling panels.

2.0 PROCEDURE

This procedure modifies step 3.1.7 of IIN-D139-816 Rev. D.

- 2.1 Position the D4634-041/-043/-045 center panels onto the p/n E4417F01 cabin isolation mounts using $\varnothing 0.25"$ (6 mm) holes in the panels. Identify those mounts that do not align with holes in the panels. Ensure that a gap between the D4634-041/-043/-045 panels of approximately 0.050" (1.3 mm) is maintained.
- 2.2 Remove extra and non-aligning cabin isolation mounts from the ceiling. Temporarily install the removed mounts into non-align holes in the panels and paint mark the back of the E4417F01 mounts. Position the D4634-041/-043/-045 center panels onto p/n E4417F01 cabin isolation mounts. Ensure the new mount locations get marked in the cabin roof. Remove panels keeping the mounts on the panels.
- 2.3 Remove ceiling insulation from aircraft ceiling at the new marked mount locations.
- 2.4 Apply a small amount of CB 200 Click Bond adhesive to the E4417F01 cabin isolation mounts that are being relocated.
- 2.5 Reposition the ceiling panels on the ceiling pressing the E4417F01 cabin isolation mounts firmly on the ceiling and holding in position until the adhesive cures enough to remove the screws from the mount.
- 2.6 Install the necessary rivets to re-fasten the E4417F01 cabin isolation mounts to the ceiling.
- 2.7 Continue the ceiling panel installation as indicated in the IIN-D139-816.

3.0 GENERAL NOTE

- 3.1 Due to the thermoforming process variations in material thickness may occur. It is acceptable to install longer or shorter Dzus fasteners as required to accomodate this material variation.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

For D139-816-011 & CHG 005 and later, the following parts have been added to the kits.




QTY. -011	PART NUMBER	DESCRIPTION
X	D139-816-011	INTERIOR CEILING PANEL KIT
3	CB 200	3.5g ACRYLIC ADHESIVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
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A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
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MFG. APPR.	N/A	DSI 9686	SHEET 1 OF 1
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